



SERVICE BULLETIN

from: TRIO-KENWOOD COMMUNICATIONS, INC.

No- 9

SUBJECT: TS-820 Speech Processor Alignment

DATE 11/17/76

The following alignment procedure may be used in lieu of the one in the Service Manual.

Test equipment required:

Audio signal generator

Audio VTVM

Oscilloscope or RF VTVM

1. Preliminary control settings:

Screen grid switch off

Mode switch to USB

Comp level to Max (CW)

Processor sw to Pull "on"

Meter switch to "Comp"

Send/Rec switch to "Send" as required when making adjustments.

2. Apply 1500Hz audio signal to the mic jack at 10 mv level.

Connect RF VTVM or scope to TP-2.

Adjust T-11, 12, 13, for maximum level on the S-meter.

Adjust T-14 for maximum level on scope or VTVM at TP-2.

3. Turn compression level to min, (CCW)

Reduce audio sig at mic jack to 0.3 mv

Adjust TC-4 (freq response for speech processor) so that level at TP-2 is not changed when changing audio gen from 400Hz to 2000Hz.

4. Turn compression level to max, (CW)

Set audio gen to 1500Hz at 0.3 mv.

Adjust TC-3 and VR-6 (carrier bal for speech proc) for maximum level at TP-2.

5. Set audio gen to 10 mv 1500Hz

Send/Rec switch to send

Adjust VR-7 (comp level for speech processor) so that the level at TP-2 is not changed when turning the processor on and off. VR-7 should be adjusted for the particular microphone the customer will be using with his TS-820.

6. Finally check for non distortion of signal, and that comp level of 20 to db can be obtained at full comp on.